

# **The Wild Species Helianthus - Source of Resistance to the Parasite Orobanche Cumana**

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## **ABSTRACT**

Eleven perennial species Helianthus, with different ploid level, and several hybrid forms of sunflower, with origin from crosses of wild species with cultivated Helianthus annuus L., were included in this research. The obtained hybrid forms and the new lines, created from them, showed resistance to different races of Orobanche cumana. Full resistance to the most virulent broomrape race, widely distributed in Bulgaria, showed the materials, obtained from crosses of the tetraploid H. decapetalus and crosses of the diploid H. divaricatus. The difference in the profile of resistant and non-resistant lines was proved by the RAPD method. Part of the new resistant lines participate in the creation of new hybrid sorts